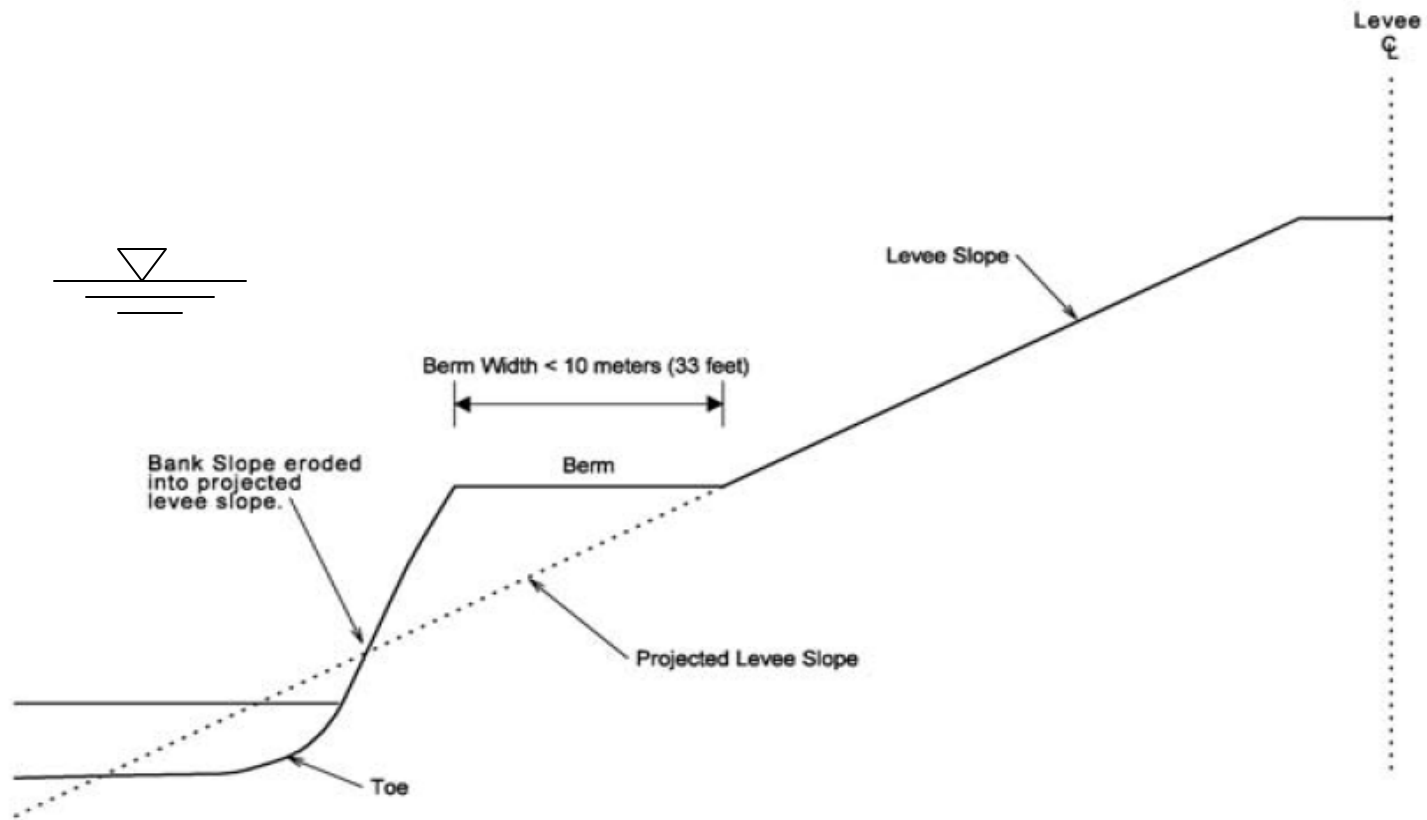


Emergency Levee Erosion Repair Project

**Don Kurosaka
DWR Project Manager**

February 2007

Typical Levee Erosion Site



**2005 U. S. Army Corps Field
Reconnaissance Study
October 24-28, 2005**



SACRAMENTO RIVER – RM 34.5R



SACRAMENTO RIVER – RM 52.3L



SACRAMENTO RIVER – RM 130.8R



SACRAMENTO RIVER – RM 141.4R



SACRAMENTO RIVER – RM 145.9L



SACRAMENTO RIVER – RM 164.0R



CACHE SLOUGH - RM 21.8R

Governor's State of Emergency State's Levee System February 24, 2006

- Identified 24 critical erosions sites on project levees with 9 sites added
- DWR is responsible for completing all necessary repairs to these sites and identifying additional levee erosion sites before next flood season

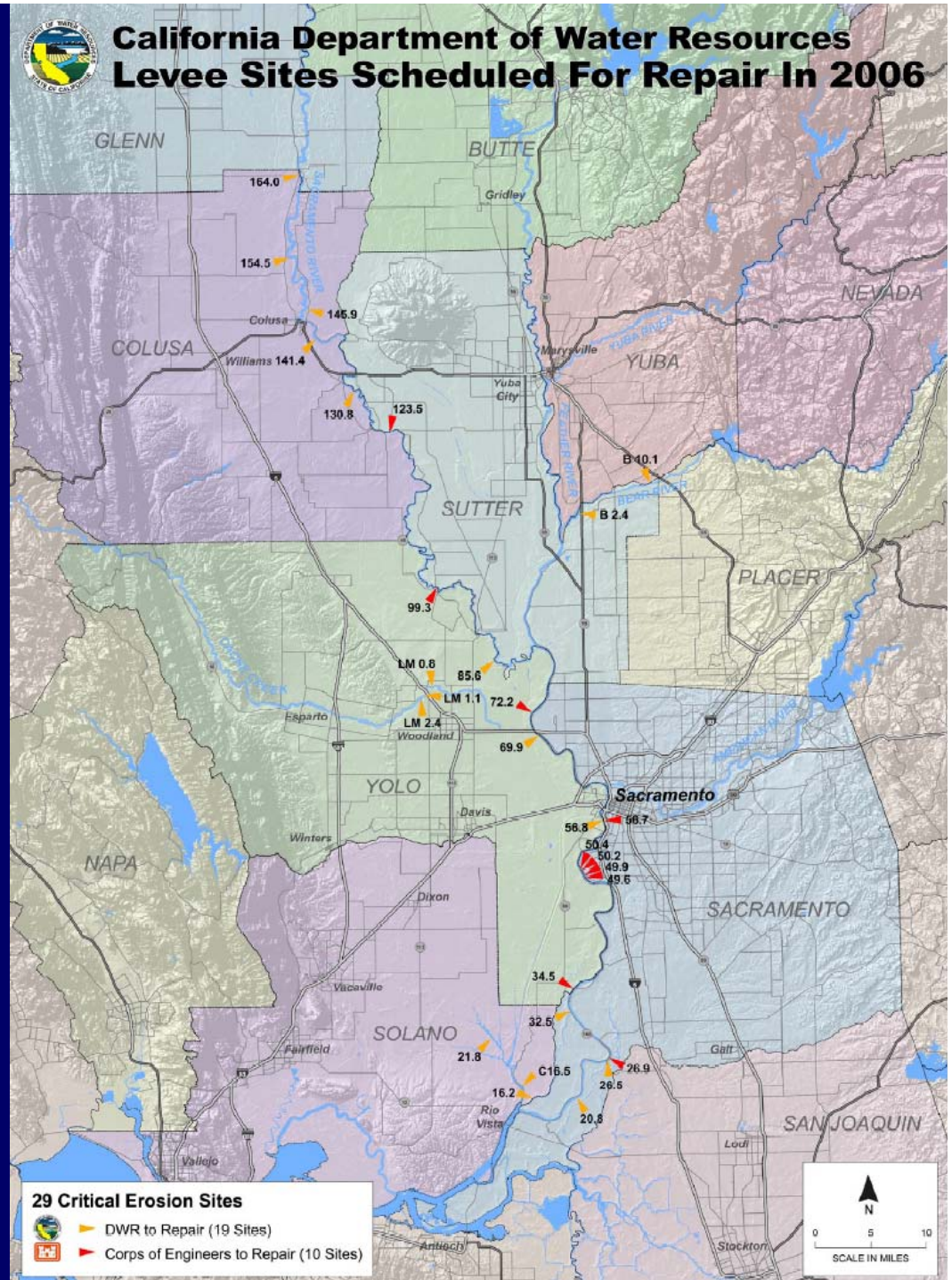
Project Objective

- Complete the repair of 29 critical erosion sites by November 1, 2006; complete an additional 4 sites by November 30, 2006
- Identify other additional critical erosion sites in need of repair

Critical Erosion Sites in the State's Levee System

33 Repair Sites

- 22 by DWR
- 11 by USACOE



Project Schedule

Design,
Right of Way,
Permitting, &
Bid & Award



Mar Apr May Jun

*All permits &
R/W acquired*



Erosion Repair
Contracts



Jun July Aug Sep Oct

*Nov 1
complete repairs*



Vegetation &
Maintenance Contract

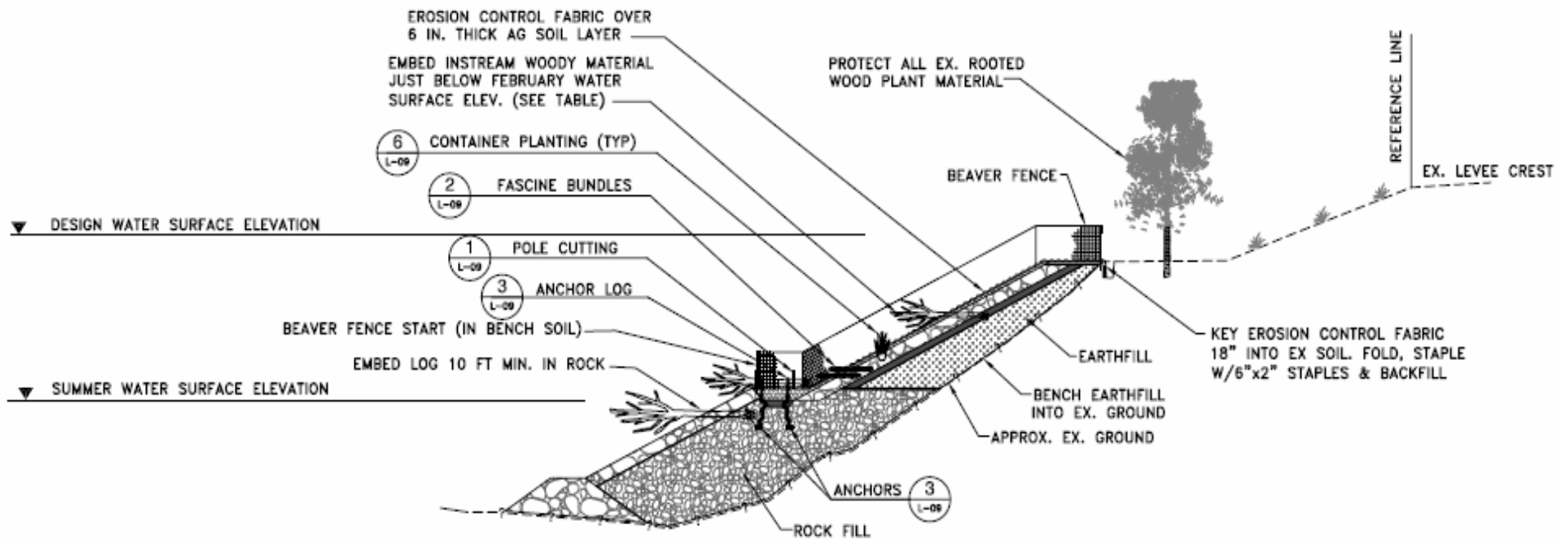


Oct

Project Engineering Details

- 33 critical erosion sites
 - 15 sites land accessible
 - 18 sites land and barge accessible
- 5 miles of bank protection (29 sites)
- 4000 ft of set-back levee (4 sites)
- 1,400,000 tons of rock material
- 200,000 cy of earth fill

Typical Repair Section





Construction Levee Repair Sites

An aerial photograph of the City of Princeton in Colusa County. The image shows a wide river on the left, bordered by a rocky shoreline. A dirt road runs along the riverbank, and a dense line of trees separates it from a residential area. Several houses with light-colored roofs are visible, surrounded by more trees. In the background, there are open fields and distant hills under a clear sky.

City of Princeton Colusa County

An aerial photograph of Sacramento, California. In the foreground, a wide river flows from the bottom left towards the center. A long, straight highway runs parallel to the river, with several cars visible. To the right of the highway is a residential area with houses and trees. In the background, the city skyline is visible, featuring several tall buildings and a bridge. The sky is clear and blue.

City of Sacramento Sacramento County

An aerial photograph of a suburban neighborhood. A wide river flows along the left side of the frame. A road runs parallel to the river, separating it from a residential area filled with houses and trees. In the far distance, a city skyline is visible under a clear sky.

City of Sacramento Sacramento County

An aerial photograph showing a residential neighborhood with houses and trees along a river. In the foreground, there are construction barges with cranes and a small boat on the water. The text "City of Sacramento Sacramento County" is overlaid in a blue box with yellow text.

City of Sacramento Sacramento County

An aerial photograph of West Sacramento, California, in Yolo County. The foreground features a wide river with a rocky shoreline and a dirt road. A residential neighborhood with many houses is visible in the middle ground. In the background, a major highway runs through the landscape under a clear blue sky.

City of West Sacramento Yolo County

An aerial photograph of Walnut Grove, California. The Sacramento River flows through the center of the town. A large bridge with two bascule spans is visible, crossing the river. On the left bank, there are several buildings, including a large one with a green roof, and a parking lot. On the right bank, there are more buildings, some with blue roofs, and a road. In the background, there are large, flat, brown fields, likely agricultural land. The sky is clear and blue.

City of Walnut Grove Sacramento County

Yolo County



An aerial photograph showing a river flowing through a landscape. The left bank is densely wooded with green trees. The right bank is a mix of sandy soil, some trees, and a dirt road. Beyond the road are large, flat agricultural fields, some of which are green and others appear to be fallow or recently harvested. A blue rectangular box with yellow text is overlaid on the upper right portion of the image.

Yuba County

Solano County



Sutter County



An aerial photograph showing a wide river in the foreground with a rocky, light-colored shoreline. A dirt road runs along the riverbank, where several vehicles, including cars and a large yellow excavator, are parked or operating. A line of green trees separates the road from a large, dark brown agricultural field. In the background, more fields and distant hills are visible under a clear sky.

Colusa County



Colusa County



Yolo County

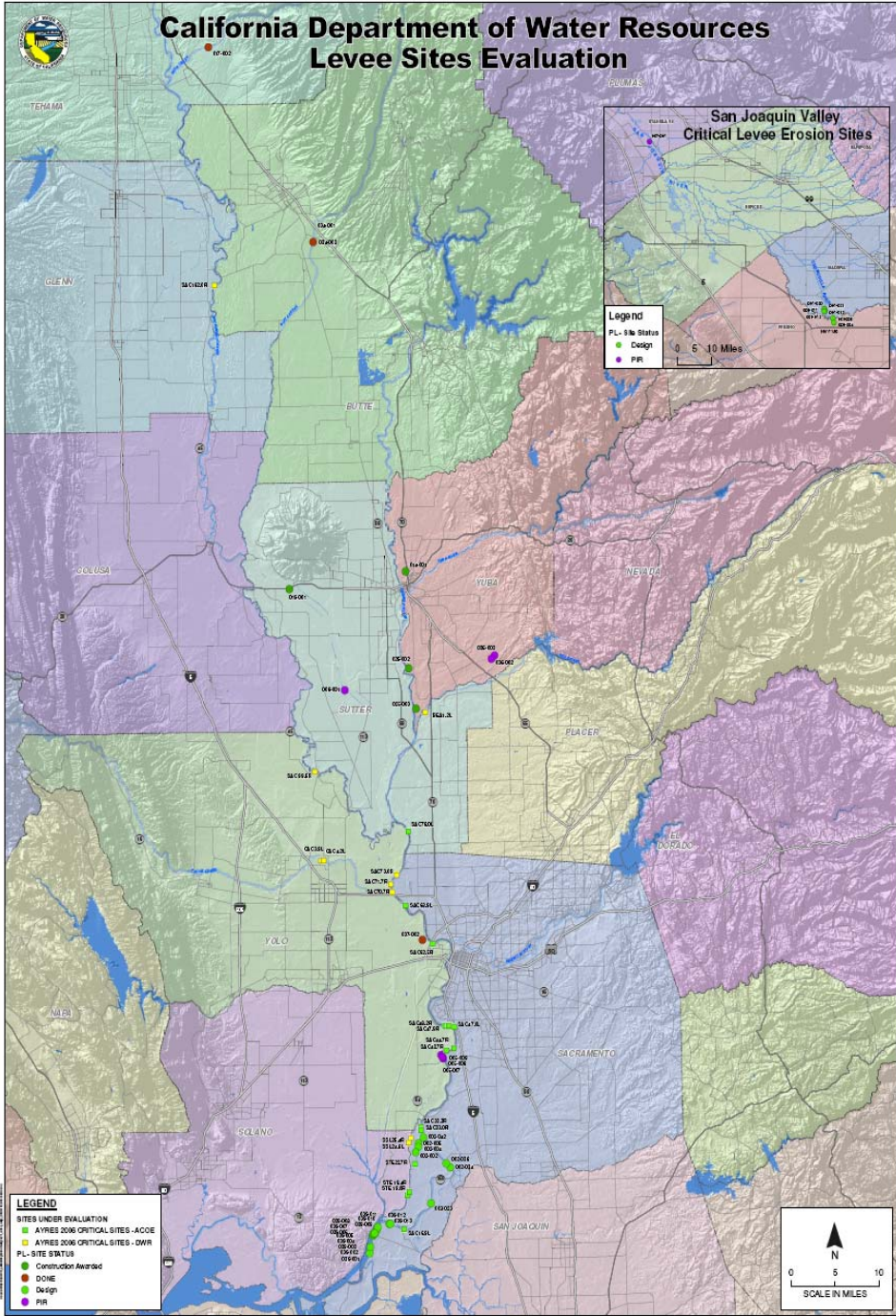
Colusa County



Colusa County



**New Levee
Erosion sites to
be repaired in
2007**



Project Information

- Website:

<http://www.levees.water.ca.gov/>

- Email:

leveerepair@water.ca.gov



Overview of the North/Central Delta Program Activities

Delta Cross Channel Reoperation

- Water quality benefits being assessed
- Fishery diversion concerns are dependent on this Team
- Potential structural fishery improvements
 - DCC intake
 - Slough entrance reconfigurations (Sutter, Steamboat, and Georgiana Sloughs)

Through Delta Facility

- May guide the development of the isolated or peripheral canal
- Delta Vision is requesting information on this project
- Team recommendations will be influential

Franks Tract Pilot Project

- Refined operations and performed a preliminary analysis of pilot project alternatives
- New Three Mile Slough Alternative may have potential fishery benefits
- Need technical and financial support